

Wright State University

CORE Scholar

---

WSU Research News

Office of the Vice Provost for Research

---

1-1-1975

## WSU Research News, January 1975

Office of Research Development, Wright State University

Follow this and additional works at: [https://corescholar.libraries.wright.edu/ws\\_u\\_research\\_news](https://corescholar.libraries.wright.edu/ws_u_research_news)



Part of the [Mass Communication Commons](#)

---

### Repository Citation

Office of Research Development, Wright State University (1975). *WSU Research News, January 1975*. .

This Newsletter is brought to you for free and open access by the Office of the Vice Provost for Research at CORE Scholar. It has been accepted for inclusion in WSU Research News by an authorized administrator of CORE Scholar. For more information, please contact [library-corescholar@wright.edu](mailto:library-corescholar@wright.edu).



WRIGHT STATE

Research

Office of Research Development

ASSISTANT DIRECTOR  
UNIVERSITY LIBRARY  
PUBLIC SERVICE

*Archive*

January, 1975  
Vol. VII, No. 7

GRANTS, AWARDS  
AND CONTRACTS

The amount of \$9,413 has been added to the "Rehabilitation Counselor Training" - planning and implementation grant under the supervision of Perry Hall. This increase in Project #325 provides for stipends and fees for students taking the program. Funding is from the Social and Rehabilitation Services, Department of Health, Education, and Welfare.

Although a number of grants and contracts are nearing completion, we are unable to report them in this issue of the Research News because they have not become official. Apparently the Holiday Season has influenced the movement of the mail and the activities of the offices involved.

\* \* \* \* \*

With the start of the year, 1975,

Research at WSU is still alive.

Funded programs continue to grow,

Even though the economy is slow.

Proposals still are the greatest need;

All good faculty, please take heed.

Come and visit us in our new suite,

Although isolated, it is quite neat.

\* \* \* \* \*

POPULATION  
RESEARCH

The Population and Reproduction Grants  
Branch of the National Institute on Child  
Health and Human Development Centers

for Population Research has announced the following priorities for research:

- (1) Psychological aspects of population, family planning, and human reproduction.
- (2) Behavioral and social science aspects of population and reproduction.
- (3) Economic aspects of population, family planning, and human reproduction-economic analysis of fertility; economic factors in marriage and divorce, family formation, composition, and dissolution; economic analysis of morbidity and mortality; economic aspects of population distribution; economic analyses of the antecedents and consequences of population growth and change, and policy issues.
- (4) Anthropological aspects of population, family planning, and human reproduction - cultural, social organization, personality, and ecological factors implicated in population composition, distribution, growth and change.
- (5) Geographic aspects of population and reproduction - distributional analysis, migrational phenomena, spatial implications of interaction of demographic with other systems, problematic aspects of population in space, and methodology.
- (6) Political aspects of population, family planning, and reproduction-population growth and size, population composition, population distribution, population policies & programs, political aspects of population programs and research, and multidimensional research problem areas.

Preliminary contact with the Behavioral Scientist Administrator is advisable before submitting a formal proposal. Deadlines for submission are February 1, June 1, and October 1.

CONGRESSIONAL  
SCIENTIST  
FELLOWSHIP

Applications are sought for the 1975-76 American Physical Society Congressional Scientist Fellowship program. The Fellowships will support two physicists to serve for a year in the office of a Senator or Representative or on a Congressional Committee. Applications are due March 15, 1975. For details, contact: Administrator, CSFP, APS, 335 East 45th Street, New York, New York 10017.

\* \* \* \* \*



ECONOMIC  
RESEARCH

The Office of Economic Research, of the Department of Commerce's Economic Development Administration, has an external research program through grants and contracts with educational institutions.

The nature of the research program is such that research suggestions are welcome at anytime in any discipline. Proposals of special interest to OER are: regional and urban economic structure and relationships; economic activities and processes; program analysis; subnational impact of national economic policy; and training (professional personnel training programs and evaluation).

A preliminary proposal (letter of intent) should contain all pertinent information including goals, methodology, and scope. There is no deadline for proposal submission. There may not be any new starts this year, but OER may be in better position next year considering the economic situation.

GRANT-IN-AID  
WOMEN IN SCIENCE

Graduate Women in Science provides a \$750 grant-in-aid to a woman holding a recognized degree and has demonstrated outstanding ability and promise in research in one of the biological, mathematical, or physical sciences. The grant is for one year. The stipend may be used in support of a research project or course work, provided the latter is relevant to the research program.

Application forms and further information may be obtained from A. Katherine Miller, Merck Institute for Therapeutic Research, Rahway, N. J. 07065. Application fund credentials must be submitted by February 1, 1975. Awards to be announced by April 1, 1975.

STIPENDS FOR  
SUMMER SEMINARS

The National Endowment for the Humanities provides stipends for teachers in smaller private and state colleges and in two-year colleges who are concerned with improving their knowledge of the subjects they teach.

Selected applicants receive \$2,000 for the two month tenure plus a \$250 travel and maintenance allowance for those not commuting. Preference is given to those who have been teaching at least three years and have not had access to major resource opportunities.

Deadline for application is February 18, 1975 with award announcement in mid-March.

A copy of the application form, instructions and pertinent information has been sent to Dr. Cantelupe and to various departments in the College of Liberal Arts.

RANN-GENERAL  
REVENUE SHARING

The Division of Advanced Productivity  
Research and Technology in the RANN  
program of the National Science Founda-

tion is seeking proposals for projects concerned with research on general revenue sharing. The State and Local Assistance Act of 1972 expires in December of 1976. It is hoped that decisions regarding its renewal and possible changes in its provisions will be made considerably before that time. The NSF research programs in this area should be the basis for subsequent deliberations.

Closing date for proposals is January 31, 1975.

CITY SPIRIT

The National Endowment for the Arts has  
announced a new program entitled "City

Spirit" which aims at bringing arts into the everyday life of a city, neighborhood, town, or state.

The Endowment will provide matching grants to encourage a community to reach an arts goal by considering the overall artistic and aesthetic environment and exploring and examining that environment to plan the kinds of activities that evolve from the community.

The program encourages the exploration of the community environment to determine the best means to bring art closer to the people and to make the arts a continuing activity in the community. Projects must reflect the involvement and participation of many segments of the community.

Proposal review will be based on: quality of the proposal, applicant's capability for assuring successful use, response to public need, evidence of interest and participation on the part of a broad segment of the community, and demonstration of cooperative effort that has implications of long-term advantage to the community.

For programs to begin June 1, 1975 the deadline for application is January 31, 1975. For those which begin October 1, 1975 the deadline will be April 15, 1975.

\* \* \* \* \*

Winter is the longest season  
because it starts in one year  
and carries over into the next.

\* \* \* \* \*



METROPOLITAN  
PROBLEMS

The Center for Studies of Metropolitan Problems coordinates the activities of the National Institute of Mental Health, which pertain to urban problems and mental health. Its major research interests have been organized into the following problem areas:

- (1) Urban Institutions, Social Structure and Behavior - interested in identifying the ways in which groups fit into the larger urban social structure and to understand how the social structure, in turn, conditions the degree and quality of their participation.
- (2) Work and Mental Health - interested in clarifying the relationship between work and mental health and to determine to what extent different rates of mental illness and family and social disorganization are reflections of differential access to and experience in the labor force.
- (3) Social Meaning of Ownership - interested in assessing the potential of expanded property ownership for enhancing social stability and the quality of urban life.
- (4) New Town Social Planning & Development - interested in:
  - a. evaluating outcomes in New Town experimentation;
  - b. evaluating the impact of innovative social services;
  - c. assisting in improving New Town governmental systems;
  - d. upgrading New Town physical and social environments;
  - e. encouraging more imaginative use of leisure time.
- (5) Emergent Social Forms:
  - a. identifying the range of alternative social experiments and their participants;
  - b. discovering new roles for professionals and laymen in health, education and other service delivery systems;
  - c. assessing the impact of these experiments on the surrounding communities;
  - d. exploring "futures research" as a method of dealing with present and emerging urban problems.
- (6) Social Policies - interested in the actual process of social policy making, basic assumptions and perceptions of policy makers about target groups, methods and effects of introducing social science knowledge into the social policy-making process, and application of "futures research" and newer social policies forecasting methodology to identify and evaluate alternative futures for use in decisions and policy making relevant to urban social change.
- (7) Physical Environment and Mental Health - interested in identifying the linkages between the urban physical environment, individual behavior, and mental health.

Although not required, a preliminary proposal is suggested prior to submitting the formal proposal. The deadline for application is February 1, 1975.

CHILD  
DEVELOPMENT

The Foundation for Child Development has now established its emphasis to a concentration on the many aspects of given environments which affect the child. The Foundation is especially interested in programs which regard the child in the context of his or her family, with special focus on the impact of various ecological variables on the child, the legal rights of children, and the effects of various kinds of family services. Studies may include theoretical and ethical aspects of child development.

Programs should be generated that will affect large numbers of children and which may extend beyond a local or even a national scope. The focus is on preschool children. Programs may be funded up to possibly four years.

General guidelines for application should be used:

- (1) narrative
- (2) qualifications of director
- (3) relation to Foundation interests
- (4) time table of completion
- (5) relation of project to director's total endeavor
- (6) approximate budget
- (7) other funding sources
- (8) biography of proposer
- (9) proof of non-profit organization

S-O-S  
CONFERENCE

The National Science Foundation Student Originated Studies program had their reporting conference December 27 & 28 in Washington, D. C. Participants from Ohio included:

John L. Mendelson	-	Antioch College
Elizabeth J. Smaink	-	Heidelberg College
Jay Leibovitz	-	Miami University
Beverly Jean Warner	-	Wright State University
Stephen Barr	-	Wright State University

There were 135 research projects conducted in the summer of 1974 at 115 colleges & universities with more than 1,100 students involved.

\* \* \* \* \*

Diamonds are a girl's best friend,  
for the man it's a dog.

\* \* \* \* \*



**NIEHS ANNOUNCES HEALTH RESEARCH  
RELATED TO ENERGY PRODUCTION  
AND CONSERVATION**

The National Institute of Environmental Health Sciences has announced a new program of grants for research designed to elucidate and predict the health effects of pollutants and other potentially hazardous by-products associated with a

number of energy technologies and conservation proposals currently being developed. The overall objectives of this Institute program are to (1) determine the qualitative and quantitative effects of energy-related hazardous agents on human health, from resource recovery and processing to energy utilization and conservation; and (2) elucidate the basic mechanisms of the observed effects.

The Institute's concern with hazardous agents associated with energy production and conservation includes, but is not limited to, (a) native components of coal and petroleum; (b) gaseous and solid by-products of combustion, including oxides (and their hydrates) of sulphur, and heavy metals; (c) vapors and compounds of heavy metals contained in fossil fuels, used as catalysts, or emanating from energy-related activities and production processes; and (d) industrial dusts and fly ash, particularly those originating from fossil fuel burning, mining, and production and use of asbestos, rockwool, plastics, fiberglass, etc. Priority areas of investigation include:

- (1) Development of more sensitive and rapid physiological indicators to evaluate damage to man, with the major need in the area of toxicity testing for methods which are less time consuming, complex, and costly. The focus should be on tests designed to identify and quantify a wide variety of agents with respect to carcinogenic, mutagenic, or teratogenic properties.
- (2) Determination of mechanisms of incorporation, metabolism, deposition, and turnover of hazardous agents, with focus on mechanisms of action and sites of localization and transfer of combustion gases, particles, heavy metals, and hydrocarbons in isolated lungs, in experimental animals, and in man. In addition, similar studies are encouraged on placental and blood-brain transfer, fetal accumulation and associated effects on fetal and postpartum development.
- (3) Determination of the relationship of metabolism and fate and the toxicology of energy-related particulates and organic compounds, using physical models, cultured cells, laboratory animals and human subjects as appropriate. Experimental design should aim at uncovering mechanisms of molecular, cellular, and tissue changes resulting in covert and overt diseases.
- (4) Quantification of relationships between exposure to hazardous agents and diverse behavioral, physiological and mutagenic effects. Of particular interest are (a) quantitative relationships in behavioral changes, and their mechanisms, which result from damage to the nervous system and structural and functional incapacitation of the cardiovascular and pulmonary systems; and (b) quantitative relationships in mutagenesis.
- (5) Development of test models and concepts for extrapolation of cellular and animal data to man. Research should be directed toward (a) development and analysis of mathematical and statistical models for dose-response relationships in laboratory animals to provide predictive capability with respect to human risk based on low-dose extrapolation, and (b) development of theoretical models for determining quantitatively the absorbed dose of radiation and for predicting potentiation of radiation and chemical effects.
- (6) Identification of damage to cells and cell components as early indicators of injury in order to identify susceptible population groups and guide remedial and protective therapies, and focusing on the mechanistic details and time sequence of cellular events that will eventually result in recognizable diseases and end points. Studies should involve a broad range of organs, body functions, and cells.

Receipt deadlines for applications to this program will follow the normal National Institute of Health pattern, with 1975 deadlines being *February 1*, *June 1*, and *October 1*. For further information, contact: Dr. Robert G. Owens, Extramural Programs, National Institute of Environmental Health Sciences, National Institutes of Health, P.O. Box 12233, Research Triangle Park, North Carolina 27709 (919) 549-8411, ext. 3358.



MICROBIOLOGY  
COOPERATIVE  
USSR - U. S.  
RESEARCH

The National Science Foundation is seeking proposals for research in five areas of microbiology under a cooperative agreement between the U. S. and the Soviet Union. The projects for which

proposals are sought and the coordinators are:

- (1) Development of technology for industrial production and use of food and food proteins by microbiological means, including research into different aspects of toxicity and biological values of such products (Daniel I. C. Wang, M. I. T. ).
- (2) Engineering research and development of equipment and methods for the computerized simulation design and control of processes for microbiological technology (Arthur E. Humphrey, University of Pennsylvania).
- (3) Molecular biology of industrial microorganism (Harlyn O. Halvorson, Brandeis University).
- (4) Development of ways to produce and apply enzymes for industrial and analytical goals (George Tsao, Iowa State University).
- (5) Microbiological control of pests in Agriculture (Arthur M. Heimpel, Department of Agriculture).

Applicants should first write to Joshua M. Leise, Senior Staff associate, DAD/R, National Science Foundation, Washington, D. C. 20550 and describe their research in preliminary form.

The American Society for Microbiology through an NSF grant was responsible for this program development.

OUTSTANDING  
UNDERGRADUATE  
CHEMISTRY STUDENTS

A summer research program for outstanding undergraduate chemistry students is being offered by the University of Minnesota. These Lando Summer Research Program fellowships will provide \$130 per week to students who are currently juniors.

Application deadline is February 28, 1975. Appointments begin June 17 and normally will be for 10 weeks of study.

\* \* \* \* \*

The nostalgia craze proves that  
there's a future in the past.

\* \* \* \* \*

**NSF SEEKS UNSOLICITED RESEARCH  
PROPOSALS IN ENERGY RESOURCES  
AND CONVERSION PROCESSES**

As part of the national effort in fossil fuel development, the National Science Foundation intends to support research during FY 1975 through FY 1979 to exploit innovative technologies for recovery, preparation, and treatment, transportation, and burning of unclean fossil fuels. Related research could include exploitation of such areas as improved methods of heat recovery and advanced materials for high temperature corrosive applications. The general research goals of the NSF program include but are not limited to:

- (1) Advanced methods of in situ gasification of coal and oil shale.
- (2) Scalability of laboratory tests to actual field conditions.
- (3) Innovative methods of chemical pre-treatment for the removal of ash, sulphur, and nitrogen from mined resources.
- (4) Methods to eliminate grinding in fossil fuel processing.
- (5) Highly efficient catalysts resistant to sulphur poisoning.
- (6) Innovative methods for low pressure coal liquification.
- (7) Innovative methods for transporting raw and refined fuels.
- (8) Low BTU (50-100 BTU) gas combustion.
- (9) High temperature sulphur cleanup of fuels.
- (10) Diagnostics of high temperature reacting gas.
- (11) New methods of reducing heat loss through stack emissions.
- (12) Advanced materials such as ceramics and high temperature alloys resistant to abrasion and corrosion.
- (13) Innovative methods of cooling high temperature components such as turbine blades.
- (14) Advanced high output combustors which minimize pollutants and minimize efficiency.
- (15) New approaches of direct coal firing of turbine engines.
- (16) High efficiency mechanisms for transferring heat in closed cycle systems.

NSF encourages the submission of unsolicited proposals under this program. An initial announcement appeared in the 12/9 Commerce Business Daily, p.1. For copies of guidelines write: Office of Programs and Resources, Research Applications Directorate, National Science Foundation, 1800 G Street, N.W., Washington, D.C. 20550.

**O.E. SETS JANUARY DATE FOR  
SEX DISCRIMINATION IN  
EDUCATION STUDIES**

The U.S. Office of Education has set a due date of *January 15* in response to RFP-75-12, studies of sex discrimination in education. The National Center for Education Statistics plans to conduct three component studies to review and objectively analyze existing information relating to sex discrimination in education. No new formal survey instruments are to be constructed or used in these studies. The three study areas are:

- (a) Employment Practices: employment practices relating to teaching, supervisory, administrative, and other professional personnel in public, parochial, and private educational institutions. Personnel at all levels of education are to be included, from pre-kindergarten through graduate and professional programs, as well as adult education.
- (b) Guidance and Counseling: Availability of appropriate guidance counseling services for students in secondary schools and in postsecondary education, higher education, and adult education. Public, parochial, and private schools and institutions are to be included.
- (c) Access to Education: Access to various types of programs in postsecondary education, including occupational, technical, and professional education, higher education, and adult education. Public, parochial, and private institutions are to be included.

It is estimated that approximately one person-year of work will be required for each study, and each contract will take approximately nine months to complete. Consultation in Washington, D.C. will be required. Eligible are public agencies, private non-profit organizations, and individuals. Initial announcement appeared in the 12/12 Commerce Business Daily, p.2. Write: U.S. Office of Education, Office of Administration, Grant and Procurement Management Division, Headquarters Procurement Branch, Room 1077, 400 Maryland Avenue, S.W., Washington, D.C. 20202.



FACULTY FELLOWSHIPS IN  
SCIENCE APPLIED TO  
SOCIETAL PROBLEMS

The National Science Foundation announcement has been received by this office. The deadline date for submission of applications

has been advanced to February 7, 1975 and not the January 7, 1975 deadline previously announced in the December Research News, (page 8).

The announcement from NSF also expands the area of study to include mathematical, physical, medical, biological, engineering, and social sciences, and the history and philosophy of science. Interdisciplinary studies involving work in more than one field are encouraged, as well as work in science education involving primarily subject matter in lieu of methodology of teaching.

Fellowships are also tenable in consecutive summer periods for those unable to sacrifice the academic year.

TRAVEL GRANTS  
ADVANCED STUDY  
INSTITUTES

The National Science Foundation plans to award international travel grants to approximately 90 young U. S. scientists to attend

some forty Advanced Study Institutes in Europe during the summer of 1975.

These institutes provide highly advanced instruction on specific topics in the physical, life, and social sciences, and in engineering and mathematics. The institutes are usually two to three weeks in duration and are conducted in an atmosphere that will promote international scientific fellowship and cooperation. Openings are available to junior faculty and advanced graduate and postdoctoral students of U. S. citizenship.

Interested persons should contact the appropriate NATO Institute Director.

A list of the NATO Institutes has been requested by the Office of Research Development and will be made available to those who have expressed an interest. The deadline for application has not been officially announced but will probably be about March 1, 1975.

\* \* \* \* \*

For those who haven't found us we are located at 415 Library - The Learning Center. Our phone numbers are: 1324 - Russell E. Hay, and 1325 - Howard E Bales.



WATER RESOURCES  
RESEARCH PROGRAM

The Office of Water Research and Technology Title II Research Program (Department of the Interior) has announced five priority areas for research for FY 1976. (Res. News, Nov. p. 15) The program provides project grants and contracts to educational institutions for experimental, developmental, or research work in the field of water resources. Although any investigations which hold promise of contributing to the solutions of water resources problems related to the various missions of the Department are eligible, the emphasis will be placed on:

- (1) improvement of water resources planning & management;
- (2) solving of energy-related water problems;
- (3) promotion of water use efficiency;
- (4) protection of the environment

Under the first priority area, the concern is on those water resources considerations, including social, economic, political, and legal issues, which will affect decisions relating to public land energy development programs, multiple use of public land watersheds, and water supply augmentation technology.

The second priority area is concerned with resolving water and related land resources problems incurred due to the development of fossil fuel energy sources, e. g., increased demand for water in mining & processing, expanding community growth and new towns, water allocation, water quality, and adverse environmental and social impacts which might occur.

The fourth priority area is concerned with a number of environmental, ecological, and limnological research areas, including planning for protecting, managing, and conserving aquatic and related resources; application of ecological knowledge in conjunction with socioeconomic, political, institutional, legal, and related land resources considerations for use of aquatic areas with minimal degradation of the aquatic environment; impacts of energy development on the environment; and conservation planning for protection of aquatic ecosystems.

Proposals must be submitted by January 10, 1975 to be started in the quarter beginning July 1, 1975. Later submissions will be awarded on a quarterly basis.

\* \* \* \* \*

When all else is lost, the future  
is there before you.

\* \* \* \* \*

NSF OFFICE OF NATIONAL R & D ASSESSMENT :  
EXTRAMURAL RESEARCH PRIORITIES FOR FY 1975

NSF's Office of National Research and Development Assessment has published guidelines and research priorities, together with estimated FY 1975 funding levels for extramural activities, for organizations or individuals interested in submitting applications. The National R&D Assessment Program identifies issues involved in relating R&D and technological innovation to national objectives, provides information services and state-of-the art summaries, assesses the state of current knowledge, identifies and studies major gaps in knowledge, and analyzes alternative policy options and their potential effects. (The program is not concerned with technology assessment which is handled by the RANN program.)

The program consists of three elements: government and technological innovation, socioeconomic effects of technological innovation, and processes of technological innovation. A brief description of each with general priority areas and estimated funding levels for FY 1975 follows. (A more detailed description of each element and information on recommended research topics are included in the NSF publication cited at the end of this article.)

A. Government and Technological Innovation

The principal objectives of this program element is to analyze how government affects, and is affected by, technological innovation in order to achieve socioeconomic objectives. Priority areas for research include:

1. Government Decisionmaking/Allocation of Resources--Estimated Funding Level: \$300,000.
2. Patents, Antitrust, and Market Structure--Estimated Funding Level: \$175,000.
3. Regulation and Innovation--Estimated Funding Level: \$225,000.
4. Topical Policy Studies in Areas of National Concern--Estimated Funding Level: \$100,000.

B. Socioeconomic Effects of Technological Innovation

The objective of this program element is to identify, measure, and examine the effects of technological innovation. This element concentrates on the following four topics:

1. Private and Public Returns from Technological Innovation--Estimated Funding Level: \$450,000.
2. Effects of International Technology Flows and Levels of U.S. Economic Welfare--Estimated Funding Level: \$300,000.
3. Technological Change and the Supply of and Demand for Materials--Estimated Funding Level: \$75,000.
4. Individual Well-Being and Technological Change--Estimated Funding Level: \$75,000.

(Continued on next page)

## NSF Extramural Research Priorities (cont.)

### C. Processes of Technological Innovation

This program element aims to contribute to the development of an improved, detailed understanding of innovation processes which will enable public and private policymakers to better assess the likely consequences of the application of alternative policies and practices. While not all topics listed below can be funded for study this year, they are illustrative of the priority interests of this element for the next few years.

1. Innovation Processes in the Private Sector--Estimated Funding Level: \$400,000.
2. Innovation Processes in the Public Sector--Estimated Funding Level: \$250,000.
3. Comparative Studies of Innovation Processes in the Public and Private Sector--Estimated Funding Level: \$100,000.
4. The Individual in Innovation Processes--Estimated Funding Level: \$50,000.

Initially, prospective applicants should submit a descriptive letter outlining the proposal. If the proposed research is found to be consistent with the program plan and priorities, applicants will be invited to discuss their ideas with the Program Office staff prior to submission of a preliminary proposal. The staff exercises substantial initiative in the development of research efforts. Eight copies of the preliminary proposal should be submitted for review, and thirty copies of the formal proposal should be submitted for the final decision. Proposals may be submitted at any time during the year, but approximately three to six months should be allowed for review and processing between submission of a formal proposal and a final decision.

Additional information is included in the "Official Program Plan for Support of Extramural Research--Fiscal Year 1975" which may be obtained by writing:

Leonard J. Lederman  
Office of National R&D Assessment  
National Science Foundation  
Washington, D.C. 20550  
(202-382-4102)

\* \* \* \* \*

(Typist's Note: The following may be puzzling, but read on.....)

Ghoti spells fish!

lau(gh) - f

w(o)men - i

na(ti)on - sh

\* \* \* \* \*



N.S.F.: Criteria for the Selection of Research Projects. A National Science Foundation policy statement detailing criteria for the selection of research projects appeared on December 9.

The statement was approved by the National Science Board on October 17-18, 1974, and covers agency objectives and methods, functions performed, criteria for support by category, a discussion of the criteria as they apply to various types of projects, and the application of the criteria to the Foundation's specific programs. The criteria have been grouped in four categories:

"Category A. Criteria relating to competent performance of research -- the technical adequacy of the performer and of his institutional base:

- (1) The scientist's training, past performance record, and estimated potential for future accomplishment;
- (2) The scientist's demonstrated awareness of previous and alternative approaches to his problem;
- (3) Probable adequacy of available or obtainable instrumentation and technical support.

Category B. Criteria relating to the internal structure of science itself:

- (4) Probability that the research will lead to important discoveries or valid, significant conceptual generalizations within its field of science or (in the most favorable cases) extending to other fields as well;
- (5) Probability that the research will lead to significant improvements or innovations of investigative methods -- again with possible extension to other fields of science.

Category C. Criteria relating to utility or relevance:

- (6) Probability that the research can serve as the basis for new invention or improved technology;
- (7) Probable contribution of the research to technology assessment -- i.e., to estimating and predicting the direct and indirect, intended and unintended effects of existing or proposed technologies;
- (8) Identification of an immediate programmatic context and user of the anticipated research results.

Category D. Criteria relating to future and long-term scientific potential of the United States.

- (9) Probable influence of the research upon the capabilities, interests, and careers of participating graduate students, postdoctoral associates or other junior researchers;
- (10) Probability that the research will lead to radiation and diffusion, not only of technical results, but also of standards of workmanship and a tradition of excellence in the field;
- (11) Anticipated effect upon the institutional structure of U.S. Science."

NIAAA SETS FEBRUARY DATE FOR  
ESTABLISHMENT OF NATIONAL  
CENTER FOR ALCOHOL EDUCATION

The National Institute on Alcohol Abuse and Alcoholism has set a due date of February 3 in response to RFP-NIA-75-0021, for the establishment and operation of a continuation of the National Center for Alcohol Education in the Washington, D.C. area. The

Center is to serve as an innovative and well-managed developer and implementer of models of excellence in alcoholism training programs. The Center will be required to address the following needs: (1) Counselor and other non-degreed professional training towards quality performance and certification in alcoholism service programs; (2) training for planning of alcoholism services as part of the social and health delivery systems; (3) disseminating previously developed curriculum and experimental model materials; (4) coordinating and planning for joint efforts by the Area Alcohol Education and Training Programs in Summer Schools of Alcohol Studies. Initial announcement appeared in the 12/11 Commerce Business Daily, p.7. Write: National Institute on Alcohol Abuse and Alcoholism, Contracts Management Branch, Parklawn Building, Room 16C-21, 5600 Fishers Lane, Rockville, Md. 20852.

SPECIAL  
NOTE

The current benefit rates to be used in the preparation of proposals for extramural funding have been set at 18% for all classifications (faculty, classified or unclassified) until notification of any change.

Use rate on the Van de Graaf, when available, will be \$8.00 per hour.

Machine Shop charges, in the event they are a part of any project, should be set at \$4.80 per hour.

Automobile travel is reimbursed at the rate of 12¢ per mile and should be reflected in any travel associated with projects. Air travel will be assessed at the actual (at-the-time) price as determined by the travel office.

The new indirect cost rate has not been approved to date. The present 58% of salaries and wages (excluding benefits) will remain in effect until further notification.

POPULATION  
POLICY RESEARCH

The Rockefeller & Ford Foundation Program in Support of Population Policy Research in the Social Sciences is accepting Research Proposals for 1976.

This worldwide program of awards for research is designed to encourage population policy research on the social and economic determinants and consequences of population growth and distribution, as well as broaden the understanding of the relationship between population variables, law and economic and social policies.

Deadline for proposals is July 1, 1975 for research to begin as early as March 1, 1976. Awards will be announced in December 1975.

Application information is available from The Rockefeller-Ford Program for Population Policy Research, 111 West 50th Street, New York, N. Y. 10020.

\* \* \* \* \*

Will 1975 bring Regress reports now that  
the Dow-Jones is below 600?

\* \* \* \* \*



# NATIONAL SCIENCE FOUNDATION

## Summary of Allocations for Fiscal Year 1975 Appropriations

	FY 1975 Budget Request To Congress	FY 1975 Allocations
Scientific Research Project Support:		
Atmospheric Sciences	\$ 14,600,000	\$ 13,900,000
Earth Sciences	13,700,000	13,200,000
Oceanography	15,900,000	15,200,000
Biological Sciences	85,400,000	79,300,000
Physics	44,800,000	42,700,000
Chemistry	37,100,000	33,600,000
Astronomy	11,500,000	10,800,000
Mathematical Sciences	17,100,000	17,250,000
Social Sciences	29,000,000	24,800,000
Engineering	37,900,000	35,650,000
Materials Research	45,400,000	43,400,000
Computing Activities	11,300,000	11,500,000
Subtotal	<u>363,700,000</u>	<u>341,300,000</u>
National and Special Research Programs:		
Global Atmospheric Research Program	4,000,000	4,000,000
Experimental R&D Incentives Program	1,000,000	1,000,000
National R&D Assessment Program	3,000,000	2,500,000
International Decade of Ocean Exploration	15,500,000	15,000,000
Ocean Sediment Coring Program	11,000,000	11,000,000
Arctic Research Program	3,500,000	3,300,000
U.S. Antarctic Research Program	25,800,000	25,800,000
Oceanographic Facilities and Support	15,000,000	19,900,000
Science and Technology Policy Research	1,500,000	1,500,000
Energy R&D Policy Research	4,500,000	4,500,000
Subtotal	<u>84,800,000</u>	<u>88,500,000</u>
National Research Centers:		
National Astronomy and Ionospheric Center	3,300,000	3,300,000
Kitt Peak National Observatory	7,800,000	7,800,000
Cerro-Tololo Inter-American Observatory	3,000,000	3,000,000
National Radio Astronomy Observatory	20,500,000	20,500,000
National Center for Atmospheric Research	17,900,000	17,900,000
Subtotal	<u>52,500,000</u>	<u>52,500,000</u>
Science Information Activities	<u>5,000,000</u>	<u>5,000,000</u>
International Cooperative Scientific Activities	<u>8,000,000</u>	<u>8,000,000</u>
Research Applied to National Needs:		
Energy Research and Technology	94,900,000	93,400,000
Environmental Systems and Resources	22,700,000	17,500,000
Advanced Technology Applications	14,300,000	15,500,000
Social Systems and Human Resources	13,000,000	11,800,000
Exploratory Research and Problem Assessment	4,000,000	3,900,000
Subtotal	<u>148,900,000</u>	<u>142,100,000</u>



# NATIONAL SCIENCE FOUNDATION

## Summary of Allocations for Fiscal Year 1975 Appropriations (Cont.)

	FY 1975 Budget Request To Congress	FY 1975 Allocations
Intergovernmental Science and Research Utilization	\$ 1,000,000	\$ 1,000,000
Institutional Improvement for Science	3,000,000	5,500,000
Graduate Student Support:		
Graduate Fellowships	9,500,000	9,500,000
Graduate Traineeships	1,800,000	2,300,000
Energy Related Postdoctorals	1,400,000	1,400,000
Subtotal	12,700,000	13,200,000
Science Education Improvement:		
Improvement of Education for Careers in Science	27,900,000	31,000,000
Improvement of Education for Scientific Literacy	20,400,000	20,400,000
Increasing the Effectiveness of Educational Processes	12,100,000	12,100,000
Problem Assessment and Experimental Projects	1,000,000	1,650,000
Subtotal	61,400,000	65,150,000
Planning and Policy Studies	2,700,000	2,950,000
Program Development and Management	39,500,000	38,100,000
Total, Salaries and Expenses Appropriations	783,200,000	763,300,000
Special Foreign Currency Program	5,000,000	4,850,000
Total, FY 1975 Appropriation	788,200,000	768,150,000

## SPECIAL ENERGY R&D APPROPRIATION

(Included in the total NSF funding shown above)

National and Special Research Programs:		
International Decade of Ocean Exploration	\$ 600,000	\$ 600,000
U.S. Antarctic Research Program	100,000	100,000
Energy R&D Policy Research	4,500,000	4,500,000
Subtotal	5,200,000	5,200,000
International Cooperative Scientific Activities	1,000,000	1,000,000
Research Applied to National Needs:		
Energy	93,400,000	93,400,000
Program Development and Management	2,200,000	2,200,000
Total, Special Energy R&D Appropriation	101,800,000	101,800,000

# CALENDAR OF DEADLINES

## JANUARY

	CODE	DATE
Public Affairs & Administration Fellowships	O-44	10
Water Resources Research	L-17	10
Educational Talent Search	D-137	10
Upward Bound	D-133	10
Special Services for Disadvantaged Students in Institutions of Higher Education	D-139	10
Teacher Corps	D-67	Mid. Mo.
Bilingual Education FY 1975		13
Fund for the Improvement of Postsecondary Education	D-71	15
Senior International Fellow - John E. Fogarty International Center for Advanced Study		15
Senior International Fellowships	F-98	15
Smithsonian Fellowships	O-26	15
Smithsonian Predoctoral Fellowships	O-27	15
Postdoctoral Research Associateships NRC (other than NASA)	M-69	15
Special Projects to Improve Nurse Training	F-11 Prob.	15
Scholarships for Students in the Health Professions	F-29 Prob.	15
Health Professions Student Loans	F-31 Prob.	15
Environmental Education Programs	E-95	23
Public Programs - Museum & Historical Society Grants	M-65	24
Education Programs on Development & Program Grants	M-64	24
Research in Education (prospectuses)	E-75 Prob.	28
Grants for Conversion of Two Year Schools of Medicine	F-20	30
School Maintenance & Operation in Federally Affected Areas	C-93	31
Instructional Equipment Program, Title VI	OBR	31
Refugee Assistance Program	C-106	31
Research on General Revenue Sharing (74-26)	NSF	31
College Library Resources	E-15	Jan.
Library and Information Sciences Research	E-17	Jan.
Library Training Fellowships	E-19	Jan.
Institutes for Training in Librarianship	E-23	Jan.

## FEBRUARY

	NIEHS	
Health Research Related to Energy Production & Conservation	ACLS	1
Travel Grants to International Congresses & Conferences Abroad	F-99	1
Clinical Cancer Education Grants	D-53	Feb.
Educational Personnel Development	E-15	Early Feb.
College Library Resources	E-17	Early Feb.
Library and Information Sciences Research	CLR	1
Academic Library Management Intern Program		

FEBRUARY (continued)	CODE	DATE
Library Training Fellowships	E-19	Early Feb.
Training Support Program - Biomedical	NLM	1
Institutes for Training in Librarianship	E-23	Early Feb.
Medical Library Science Research Projects	NLM	1
Occupational Safety & Health Research	F-1	1
Occupational Safety & Health Demonstrations	F-2	1
Research Support - Food & Drug Administration	F-7	1
Special Health Careers Opportunity Grants	F-33	1
Special Emphasis Program	NIAID	1
Exploratory Research Grants	F-38	1
Research Manpower Development Program	NIH	1
Resource Projects Grants	F-39	1
Nutrition Research Grants	NIH	1
Development & Demonstration Projects (Grants)	F-40	1
Special Visual Sciences Research Award		
Program MEI	NIH	1
Research Projects (NIH)	G-1	1
Astro-physics & Earth Sciences - Smithsonian		
Foreign Currency Program	O-31	1
Animal Resources for Biomedical Research	Res. Res.	1
Commissioned Officer Student Training &		
Extern Program	G-67	1
Atmospheric Sciences Postdoctoral & Senior		
Postdoctoral Fellowships	NSF	1
Minority School Biomedical Support Program	G-12	1
Biotechnology Resources	G-17	1
General Clinical Research Centers (NIH)	G-18	1
Projects to Support Animal Resources	G-19	1
Biomedical Publications Grants	G-24	1
Emergency Medical Services/Research	HRA	
Construction of Cancer Research Facilities	G-29	1
Mental Health Research Grants	G-31	1
Choreography Fellowships & Production Grants	NEA	1
General Dance Program	NEA	1
Federal State Partnership Program	NEA	1
Visual Artists Services	NEA	1
Visiting Fellowship Program	LEAA	1
Nursing Research Projects	HRA	1
Visiting Appointments - Nat. Center Atmospheric		
Res.	NSF	1
Doctoral Dissertation Fellowships in Natural		
Resources	RFF	1
Doctoral Dissertation Fellowship in Women's		
Studies	WW	1
Occupational Health Research NIOSH		1
Radiation Training (Health Grants Research)		
FDA	M-46	1
Mental Health Program - Projects Grants	G-33	1
Special Training Projects in Mental Health	G-40	1
Metropolitan Mental Health Problems	G-43	1
Minority Mental Health Programs	G-44	1



FEBRUARY (continued)	CODE	DATE
Mental Health Epidemiology	G-45	1
Academic Career Teacher Awards (Medical)	G-46	1
and (Non-Medical) in Narcotic Addiction		
and Drug and Alcohol Abuse	G-50	1
Grants-in-Aid for Humanistic Research	ACLS	1
Career Teacher Training Centers	G-47	1
Training for Health and Health Related		
Professionals in Narcotic Addiction &		
Drug Abuse	G-48	1
Implementation of Materials & Procedures		
Affecting College Teachers (IMPACT)	EXXON	1
Clinical Investigator Awards in Narcotic		
Addiction & Drug Abuse	G-49	1
Research on Narcotic Addiction & Drug Abuse	G-51	1
Drug Abuse Education Projects	G-53	1
Alcohol Abuse & Alcoholism (Research Grants)	G-55	1
Mental Health of Children & Families (Research		
Grants)	G-57	1
Mental Health of the Aging	G-58	1
Studies of Crime and Delinquency	G-59	1
Agricultural Research - Agricultural Research		
Service	K-27	1
Environmental Research, Development and		
Demonstration	M-33	1
Radiation Training	M-46	1
Grants for Study of Eastern European		
Languages	ACLS	3
Faculty Fellowships in Science Applied to		
Societal Problems (75-116)	NSF	7
Comprehensive Education Planning & Evaluation		
Grants	OE	7
Expansion Arts Program for State Arts Agencies	NEA	10
Grants in Support of Conferences	ACLS	15
Training in Family Medicine	F-28	15
Improvement of Postsecondary Education	OE	15
Summer Seminars for College Teachers	NEH	17
National Multiple Sclerosis Society (Research		
Grants)		15
Theatre Program - including:	NEA	15
Aid to Professional Theatre		
Developmental Theatre		
Playwrights - New Form		
Theatre for Youth		
Services in the Field		
State Arts Agencies - Theatre Projects		
Student Research Participation at AEC Labs		
(Summer Program)	M-9	28
Exceptional Student Fellowships - State Farm		
Companies Foundation		28
Museum Catalogues, Training, Utilization of		
Collections, and Wider Availability	NEA	28

FEBRUARY (continued)	CODE	DATE
Senior Foreign Energy Scholars Program (Doctoral Schools)	N-44	28
Bilingual Education for Children from Low- Income Families	C-87	28
Martin Luther King, Jr. Fellowship Program	WW	28

#### MARCH

Grant for Policy Research Study Japan Society Demonstration Research Projects Relating to the Treatment and Rehabilitation of Drug Users	NIMH	1
NATO Senior Fellowships in Science	N-27	1
Systematic and Environmental Biology Smithsonian Institution Foreign Currency Program	O-31	1
Museum Programs - Smithsonian Institution Foreign Currency Program	O-31	1
Dissertation Grants	HUD	1
Woodrow Wilson International Center for Scholars	O-35	1
Fellowship & Research Grants - Eye Disease Fight for Sight		1
Water Pollution Control Research Fellowships	M-45	1
Water Pollution Control Training	M-44	1
Medical Library Resources (Project Grants)	G-25	1
Medical & Allied Health, Development, Experimental & Improvement Grants	VA	1
Research in Maternal and Child Health and Crippled Children's Services	F-55	1
Professorships, Faculty Awards, Postdoctoral Fellows American Cancer Society		1
Guaranteed Loans and Interest Subsidies (Regional Office)	F-13	1
Education Projects Grants	NEH	15
Smithsonian Institution Program for Museum Studies	O-23	15
Cancer Research - Damon Runyon - Walter Winchell Fund		15
Graduate Research Appointments (Smithsonian)	O-24	15
Pre & Postdoctoral Grants National Multiple Sclerosis Society		15
Language & Area Studies	E-45	18
Postdoctoral Appointments - National Radio Astronomy Lab	NSF	21
Minority Institution Graduate Traineeships	N-18	30
Faculty Research Participation at AEC Laboratories	M-11	30

#### APRIL

Supplementary Educational Centers & Services (USOE)	C-81	1
--	------	---

APRIL (continued)	CODE	DATE
Commissioned Officer Student Training & Extern Program	PHS	1
Research in Education (Formal proposals from January Prospectuses)	E-75	April
Developmental Disabilities - Awards for Special Projects	H-54	1
MDTA Research Projects	K-58	1
Manpower - Related Doctoral Dissertation Grants	K-60	1
Driver Education Program - Annual Work Programs	L-73	1
Reactor Fuel Cycle Assistance	M-15	1
Bilingual Education FY 1976		
Impact Aid FY 1976		
Special Projects Act		
Privacy Amendments		
National Reading Improvement Program	OE	18*
Bilingual Education Amendments - Higher Education Act		
Bilingual Education Programs - Education of the Handicapped Act		
Assistance for Training in the Legal Profession Title IX HEA		
Emergency School Aid (Statewide Arts Program)	C-73	22

\*Federal Notes